USER'S GUIDE

Safety Precautions

Please read these safety precautions carefully before using the product.

⚠ **Warning** If you ignore the warning message, you may be seriously injured or there is a possibility of accident or death.

⚠ **Caution** If you ignore the caution message, you may be slightly injured or the product may be damaged

Precautions in installing the Product

⚠ Warning

■ **Keep away from heat sources like electrical heaters.**
- Electrical shock, fire, malfunction or deformation may occur.

■ **Keep the packing anti-moisture material or vinyl packing out of the reach of children.**
- Anti-moisture material is harmful if swallowed. If swallowed by mistake, force the patient to vomit and visit the nearest hospital. Additionally, vinyl packing can cause suffocation. Keep it out of the reach of children.

■ **Do not put heavy objects on the product or sit upon it.**
- If the product collapses or is dropped, you may be injured. Children must pay particular attention.

■ **Do not leave the power or signal cable unattended on the pathway.**
- The passerby can falter, which can cause electrical shock, fire, product breakdown or injury.

■ **Install the product in a neat and dry place.**
- Dust or moisture can cause electrical shock, fire or product damage.

■ **If you can smell smoke or other odors or hear a strange sound unplug the power cord and contact the service center.**
- If you continue to use without taking proper measures, electrical shock or fire can occur.

■ **If you dropped the product or the case is broken, turn off the product and unplug the power cord.**
- If you continue to use without taking proper measures, electrical shock or fire can occur. Contact the service center.

■ **Do not drop metallic objects such as coins, hair pins, chopsticks or wire into the product, or inflammable objects such as paper and matches. Children must pay particular attention.**
- Electrical shock, fire or injury can occur. If a foreign object is dropped into the product, unplug the power cord and contact the service center.

⚠ Caution

■ **Make sure the product ventilation hole is not blocked. Install the product in a suitably wide place (more than 10cm from the wall)**
- If you install the product too close to the wall, it may be deformed or fire can break out due to internal heat.

■ **Do not block the ventilation hole of the product by a tablecloth or curtain.**
- The product can be deformed or fire can break out due to overheating inside the product.

■ **Install the product on a flat and stable place that has no risk of dropping the product.**
- If the product is dropped, you may be injured or the product may be broken.

■ **Install the product where no EMI occurs.**

■ **Keep the product away from direct sunlight.**
- The product can be damaged.

Safety Precautions

Electrical Power Related Precautions

⚠ Warning

- **Make sure to connect the power cable to the grounded current.**
  - You may be electrocuted or injured.
- **Use the rated voltage only.**
  - The product can be damaged, or you may be electrocuted.
- **During a thunder or lightning storm, unplug the power cable or signal cable.**
  - You may be electrocuted or a fire can break out.
- **Do not connect several extension cords, electrical appliances or electrical heaters to a single outlet. Use a power bar with a grounding terminal designed for exclusive use with the computer.**
  - A fire can break out due to overheating.
- **Do not touch the power plug with wet hands. Additionally, if the cord pin is wet or covered with dust, dry the power plug completely or wipe dust off.**
  - You may be electrocuted due to excess moisture.
- **If you don't intend to use the product for a long time, unplug the power cable from the product.**
  - Covering dust can cause a fire, or insulation deterioration can cause electric leakage, electric shock or fire.
- **Fix the power cable completely.**
  - If the power cable is not fixed completely, a fire can break out.
- **Hold the plug when pulling out the power cable. Do not bend the power cord with excessive force or put heavy objects on the power cord.**
  - The power line can be damaged, which may cause electric shock or fire.
- **Do not insert a conductor (like a metal chopstick) into one end of the power cable while the other end is connected to the input terminal on the wall. Additionally, do not touch the power cable right after plugging into the wall input terminal.**
  - You may be electrocuted.
- **The power supply cord is used as the main disconnection device. Ensure that the socket-outlet is easily accessible after installation.**

⚠ Caution

- **Do not unplug the power cord while the product is in use.**
  - Electrical shock can damage the product.

Precautions in Moving the Product

⚠ Warning

- **Make sure to turn off the product.**
  - You may be electrocuted or the product can be damaged.
- **Make sure to remove all cables before moving the product.**
  - You may be electrocuted or the product can be damaged.

Safety Precautions

⚠ Caution

■ **Do not shock the product when moving it.**
- You may be electrocuted or the product can be damaged

■ **Do not dispose the product-packing box. Use it when you move.**

■ **Make the panel face forward and hold it with both hands to move.**
- If you drop the product, the damaged product can cause electric shock or fire. Contact with the service center for repair.

Precautions in Using the Product

⚠ Warning

■ **Do not disassemble, repair or modify the product at your own discretion.**
- Fire or electric shock accident can occur.
- Contact the service center for check, calibration or repair.

■ **Do not spray water on the product or scrub with an inflammable substance (thinner or benzene). Fire or electric shock accident can occur**

■ **Keep the product away from water.**
- Fire or electric shock accident can occur.

⚠ Caution

■ **Do not put or store inflammable substances near the product.**
- There is a danger of explosion or fire due to careless handling of the inflammable substances.

■ **When cleaning the brown tube surface, unplug the power cord and scrub with soft cloth to prevent scratching. Do not clean with a wet cloth.**
- The water can sink into the product, which can cause electric shock or serious malfunction.

■ **Take a rest from time to time to protect your vision.**

■ **Keep the product clean at all times.**

■ **Take a comfortable and natural position when working with a product to relax the muscles.**

■ **Take a regular break when working with a product for a long time.**

■ **Do not press strongly upon the panel with a hand or sharp object such as nail, pencil or pen, or make a scratch on it.**

■ **Keep proper distance from the product.**
- Your vision may be impaired if you look at the product too closely.

■ **Set the appropriate resolution and clock by referring to the User's Manual.**
- Your vision can be impaired.

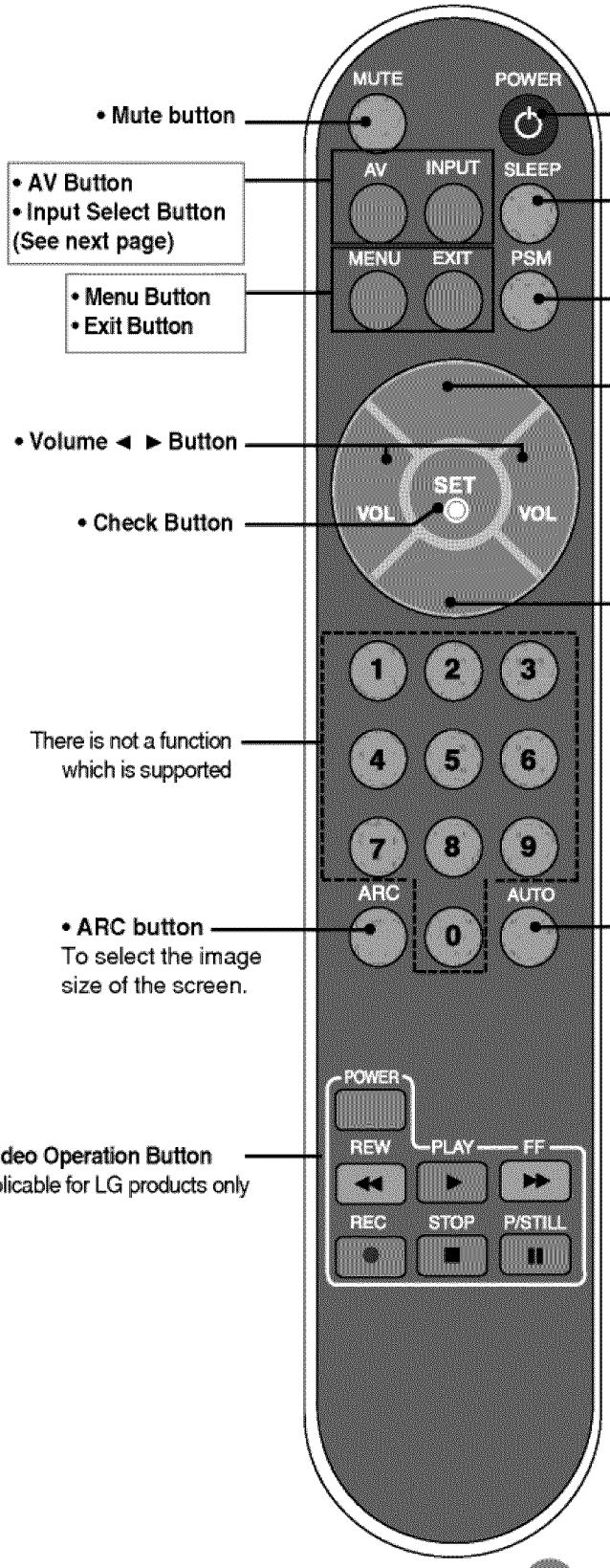
■ **Use authorized detergent only when cleaning the product. (Do not use benzene, thinner or alcohol.)**
- Product can be deformed.

On Disposal

■ The fluorescent lamp used in this product contains a small amount of mercury.
■ Do not dispose of this product with general household waste.
Disposal of this product must be carried out in accordance to the regulations of your local authority.

Using the Remote Control

Name of the Remote Control Buttons



• Mute button

• AV Button
• Input Select Button
(See next page)

• Menu Button
• Exit Button

• Volume ◄ ► Button

• Check Button

There is not a function which is supported

• ARC button
To select the image size of the screen.

• Video Operation Button
Applicable for LG products only

• Power On/Off Button

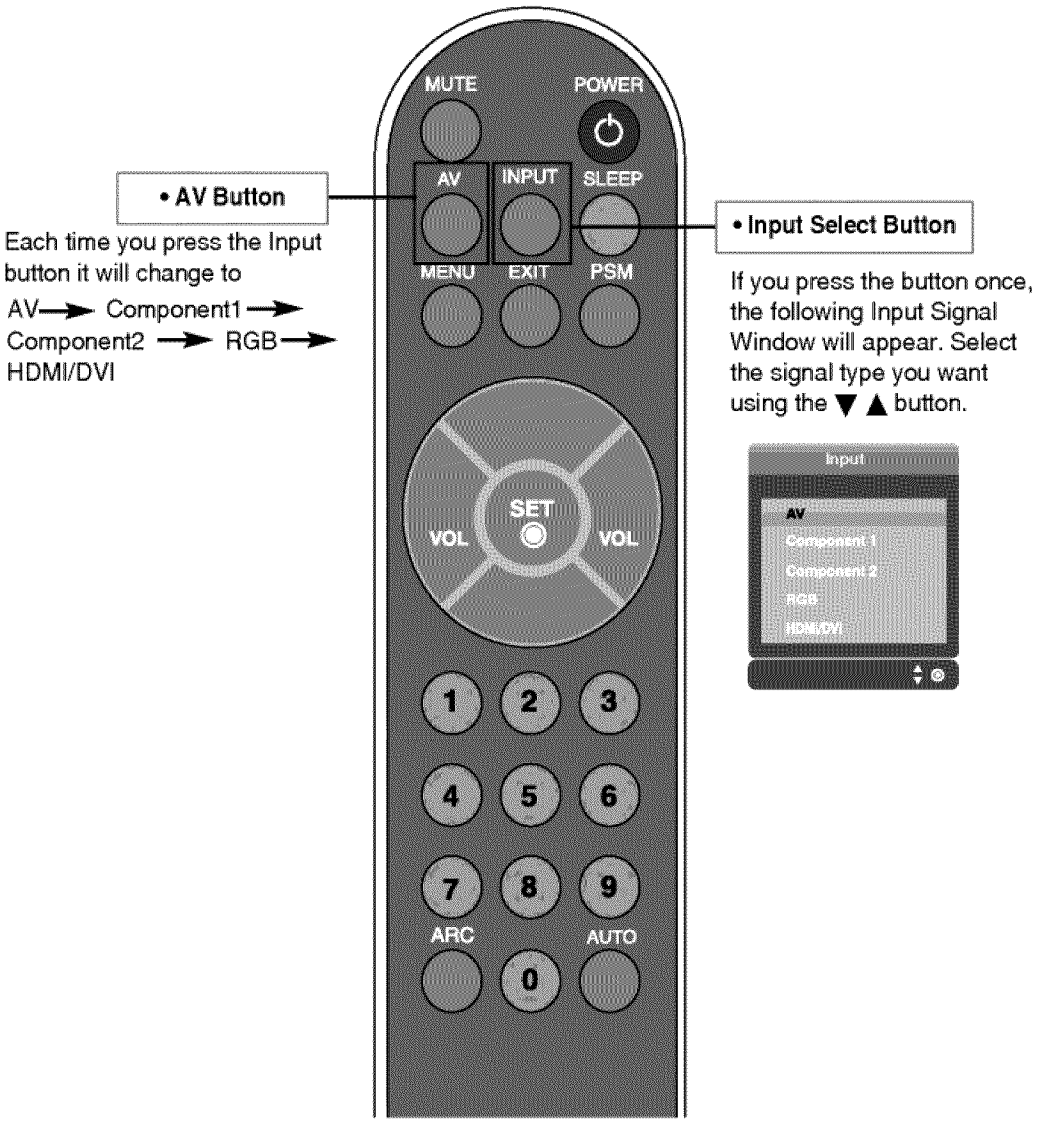
• Sleep Button
When watching AV/S-Video/RGB/HDMI
• Component1/ Component2
The product will be automatically turned off after a certain period of time.
Press this button repetitively to select an appropriate time duration

• PSM Button
- Automatically adjusts the image.
Press this button repetitively to set the intended screen. (See A21)

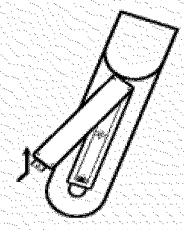
• UP and Down buttons
Bring up and down direction adjustment.

• Auto Button
Automatic adjustment function
(Operational for the analog signal only)

Using the Remote Control



Inserting batteries into remote control.

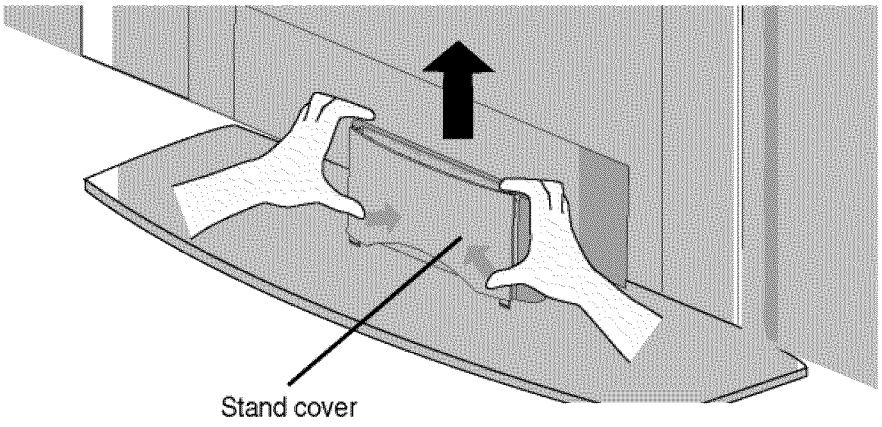


1. Take out the battery cap.
2. Insert the batteries with correct polarity (+/-).
3. Close the battery cap.
   - You can use a remote control 7 meter distance and 30 degree (left/right) within the receiving unit scope.
   - Dispose of used batteries in the recycle bin to prevent environmental pollution.

To arrange cables in order

*** Applicable only for models that support the stand**

1. Disassemble the **stand cover.** The cover may be easily disassembled by pressing up on the base as shown in the figure.

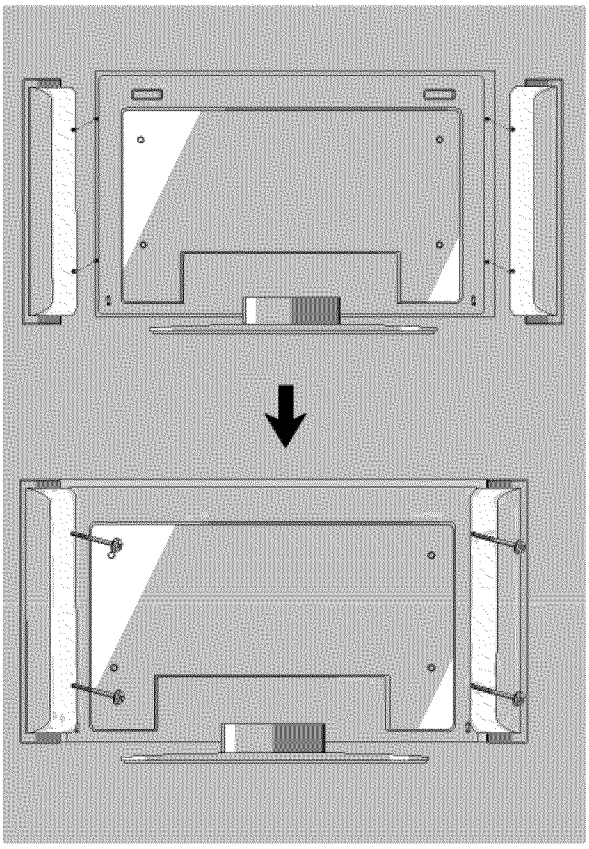


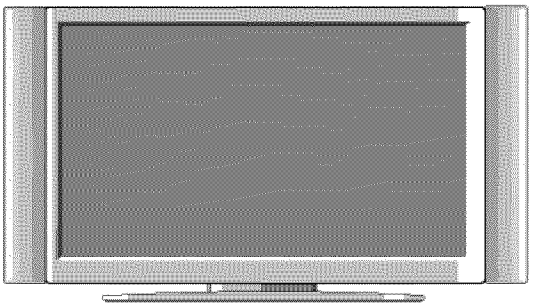
2. After connecting the cables, correctly position the stand cover into the holes on the stand. If securely connected, you will hear the latch click into place.

Connecting the Speakers

* Applicable only for models that support the speakers

Use the screws to secure the speakers on the rear side of the product as shown in the below figure.



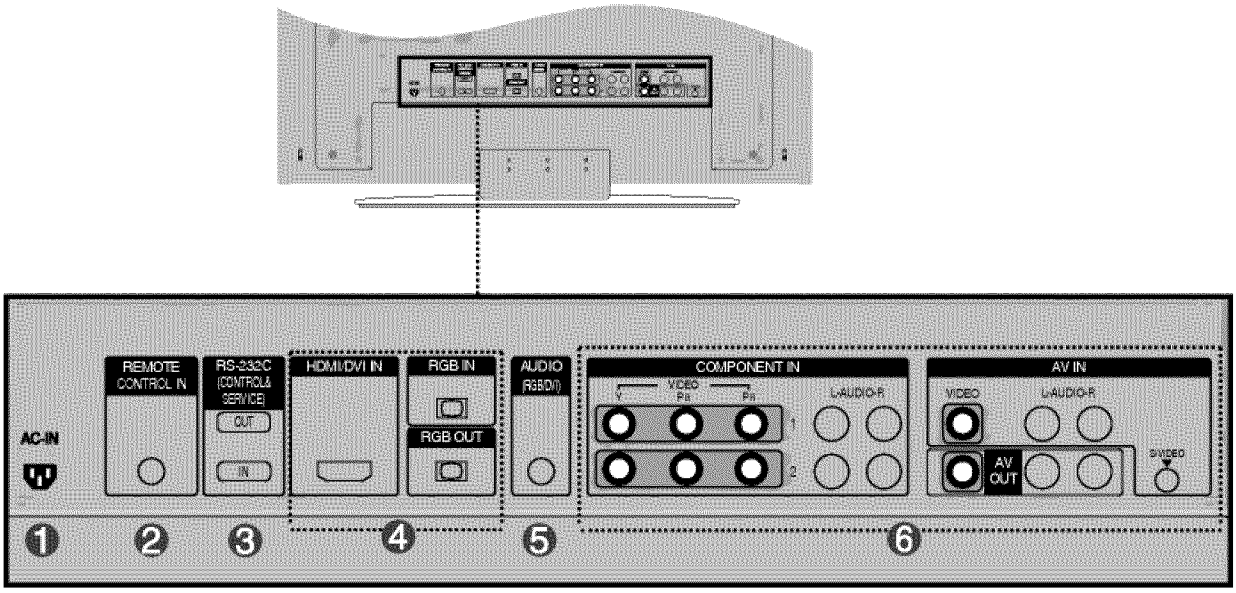


When the speaker is installed.

Name and Function of the Parts

* The product image in the user's guide could be different from the actual image.

Rear View



1 **Power Connector : Connect the power cord**

AC-IN AC-IN

Power connector and image may differ according to model.

2 **Wired Remote Control Port**

3 **RS-232C Serial Ports**

4 **RGB, HDMI/DVI Ports**

5 **PC Sound Jack**
: Connect the audio cable to the *LINE OUT jack of the PC sound card.

6 **AV Ports**

***LINE OUT**

A terminal used to connect to the speaker including a built-in amplifier (Amp). Make sure that the connecting terminal of the PC sound card is checked before connecting. If the Audio Out of PC sound card has only Speaker Out, reduce the PC volume.

If the Audio Out of the PC sound card supports both Speaker Out and Line Out, convert to Line Out using the card jumper of the program (Refer to the Sound Card Manual).

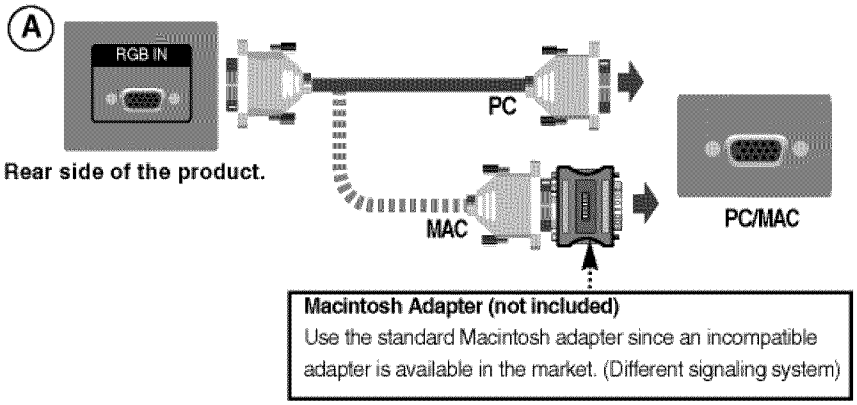
Connecting to External Devices

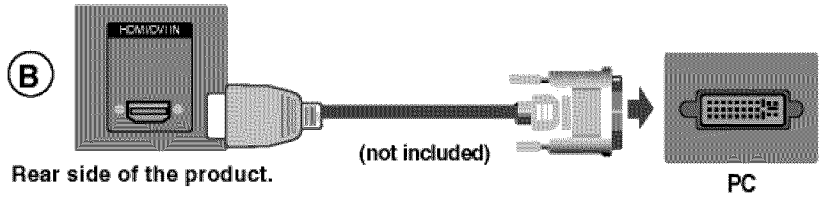
When Connecting to your PC

1 First of all, see if the computer, product and the peripherals are turned off. Then, connect the signal input cable.

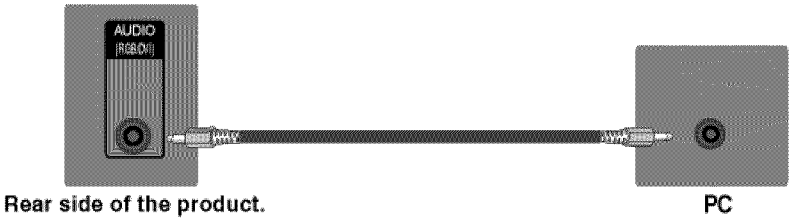
(A) When connecting with the D-Sub signal input cable.

(B) When connecting with the HDMI to DVI signal input cable (not included).

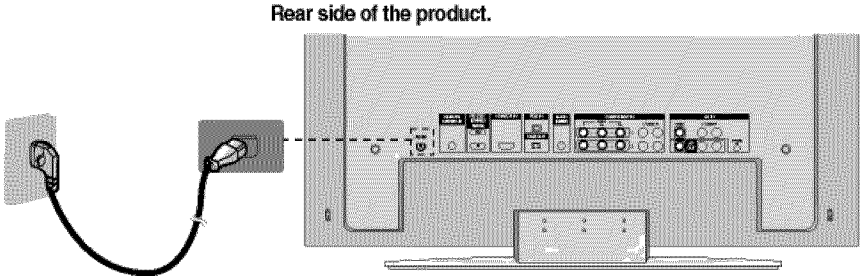

A
RGB IN
PC
Rear side of the product.
MAC
PC/MAC
Macintosh Adapter (not included)
Use the standard Macintosh adapter since an incompatible adapter is available in the market. (Different signaling system)



2 Connect the Audio cable.

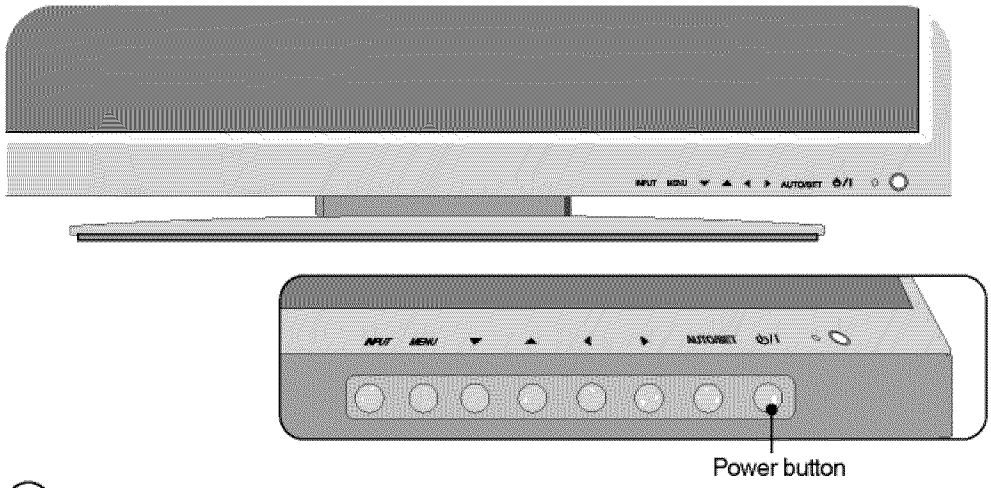


3 Connect the power cord.



Connecting to External Devices

3 ① **Turn on power by pressing the power button on the product.**



② **Turn on the PC.**

4 **Select an input signal.**
Press the INPUT button on the remote control to select the input signal.

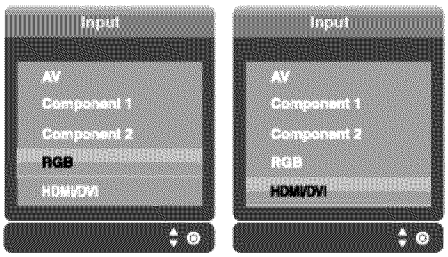
INPUT → ▼▲ → SET

Or, press the INPUT button at the front side of the product.

INPUT → ▼▲ → AUTO/SET

Ⓐ When connecting with a D-Sub signal input cable.
• Select **RGB** : 15-pin D-Sub analog signal.

Ⓑ When connecting with a HDMI to DVI signal input cable.
• Select **HDMI/DVI** : HDMI to DVI Digital signal.



Note

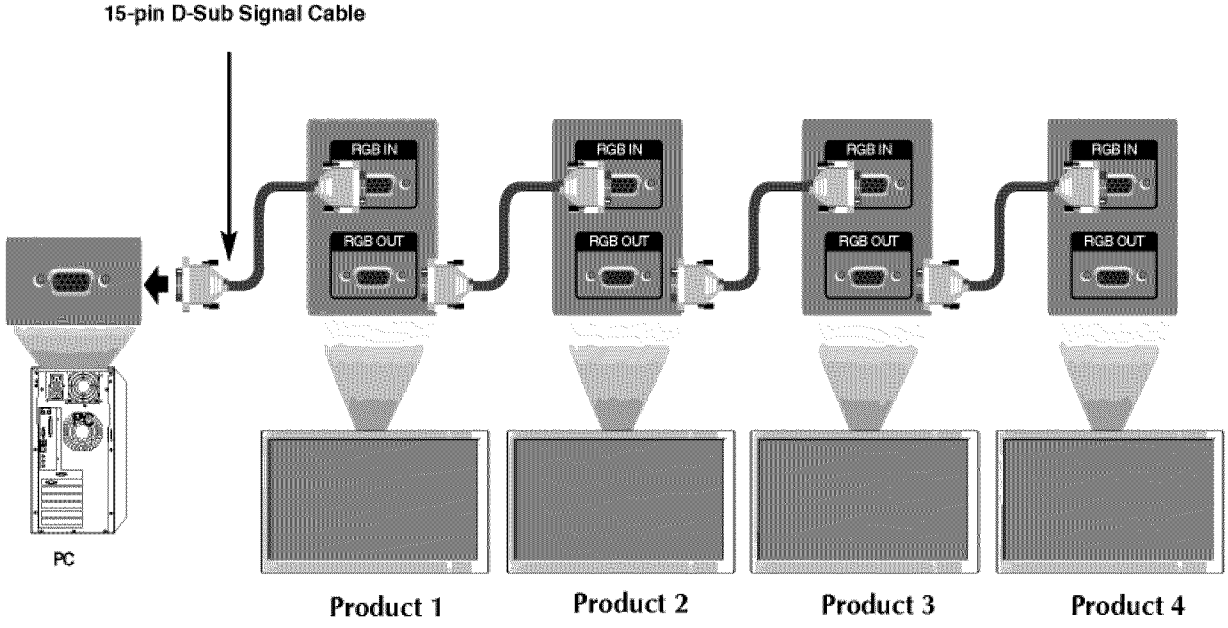
- **How to connect to two computers.**
  Connect the signal cables (HDMI to DVI and D-Sub) to each computer.
  Press the INPUT button in a remote control to select the computer to use.
- **Directly connect to a grounded power outlet on the wall or a power bar with a ground wire.**

Connecting to External Devices

Watching RGB Outputs

Use this function when displaying ANALOG RGB inputs of a PC to the other product.

- **To use different products connected to each other**
  Connect one end of the signal input cable(15-pin D-Sub Signal Cable) to the **RGB OUT** connector of **product 1** and connect the other end to the RGB IN connector of other products.



Note

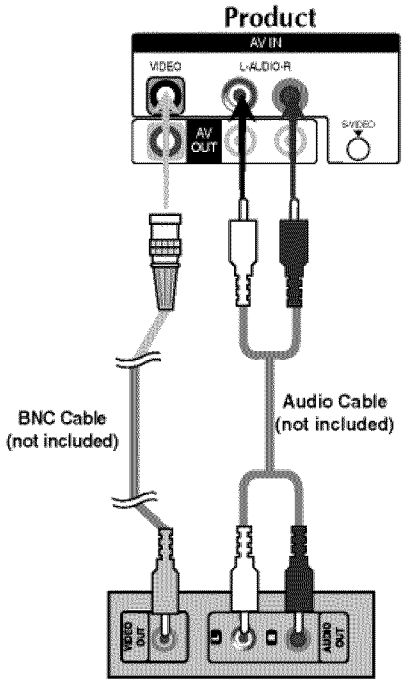
- When multi-connecting in/out cascade format, cables to be less damaged are recommended. We recommend that you should use cable distributor.

Connecting to External Devices

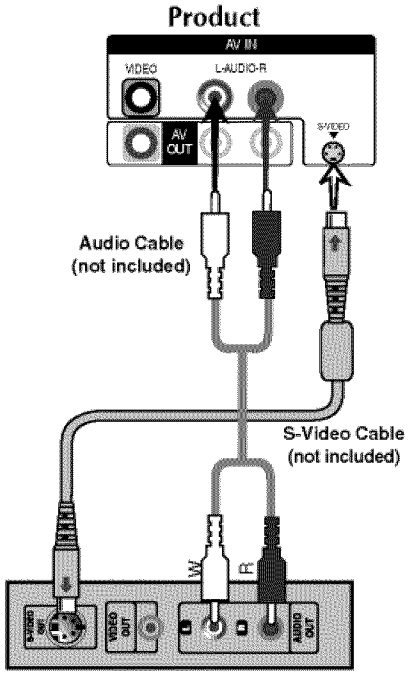
When watching VCR / DVD

1 **Connect the video cable as shown in the below figure and then connect the power cord (See page A9).**

(A) When connecting with a BNC cable.
- Connect the input terminal with a proper color match.



(B) When connecting with a S-Video cable.
- Connect to the S-Video input terminal to watch high image quality movies.

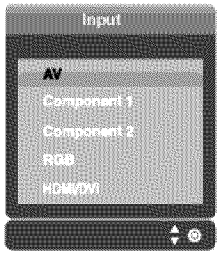


2 **Select an input signal.**
Press the INPUT button on the remote control to select the input signal.

INPUT → ▼▲ → SET

Or, press the INPUT button at the front side of the product.

INPUT → ▼▲ → AUTO/SET



(A) When connecting with an BNC cable.
- Select **AV.**

(B) When connecting with an S-Video cable.
- Select **AV.**

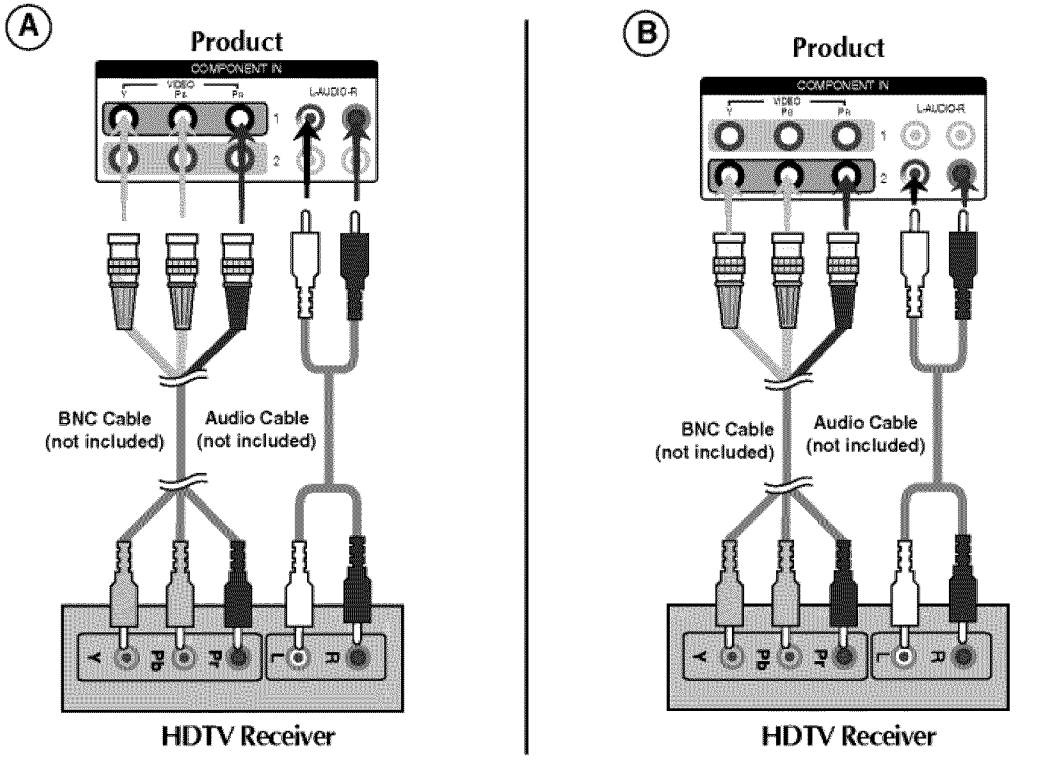
Note
- In case the BNC cable is connected simultaneously as S-Video cable is connected, S-Video cable is first.

Connecting to External Devices

When watching HDTV/DVD(480p/576p/720p/1080i/480i/576i)

1 Connect the video/audio cable as shown in the below figure and then, connect the power cord (See page A9).

- Connect the input terminal with a proper color match.

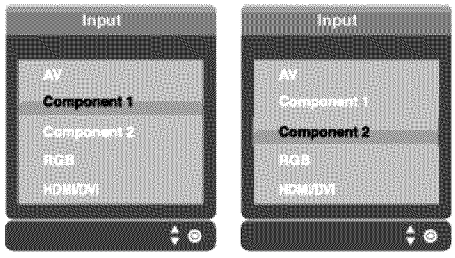


2 Select an input signal.
Press the INPUT button on the remote control to select the input signal.

INPUT → ▼▲ → SET

Or, press the INPUT button at the front side of the product.

INPUT → ▼▲ → AUTO/SET



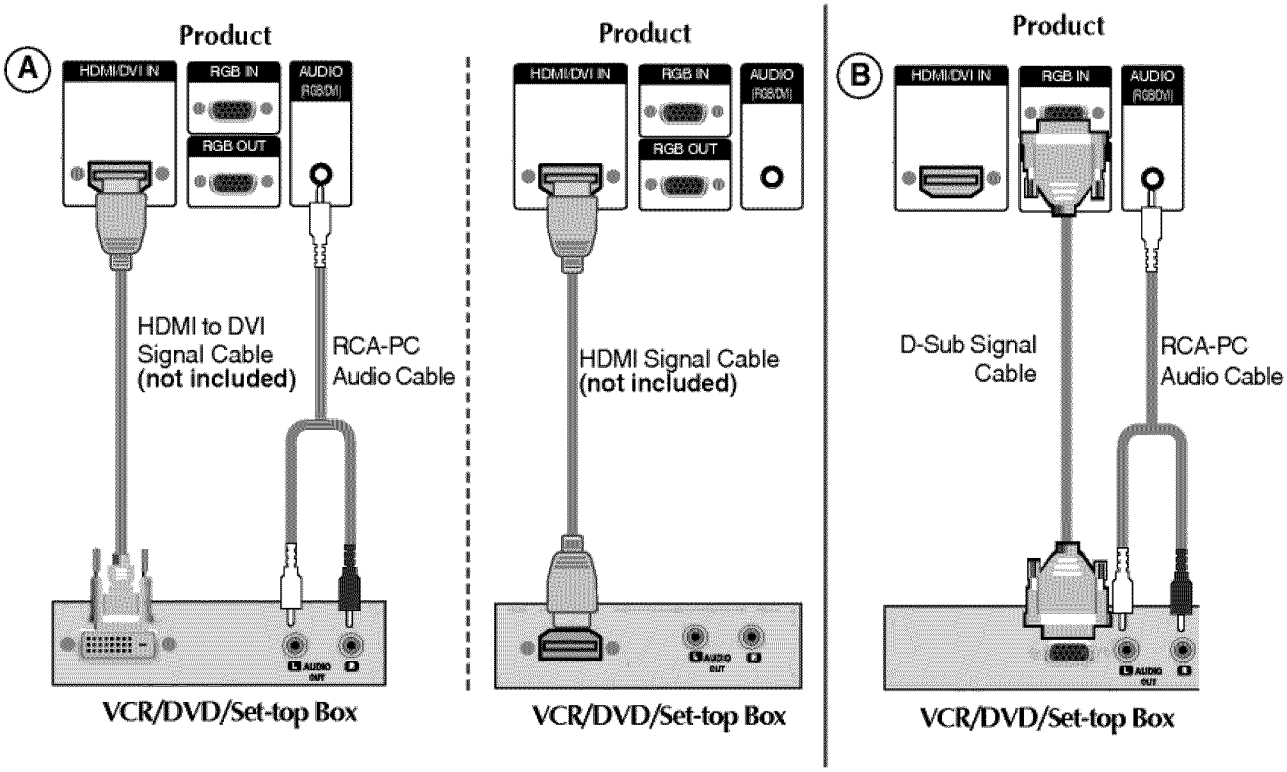
(A) • Select Component 1

(B) • Select Component 2

Connecting to External Devices

When watching HDMI/DVI/RGB from the VCR/DVD/Set-top Box (480p/576p/720p/1080i)

1 Connect the video/audio cable as shown in the below figure and then connect the power cord (See page A9).

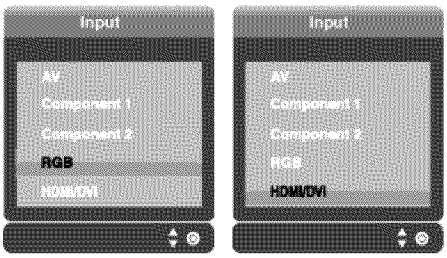


2 Select an input signal.
Press the INPUT button on the remote control to select the input signal.

INPUT → ▼▲ → SET

Or, press the INPUT button at the front side of the product.

INPUT → ▼▲ → AUTO/SET



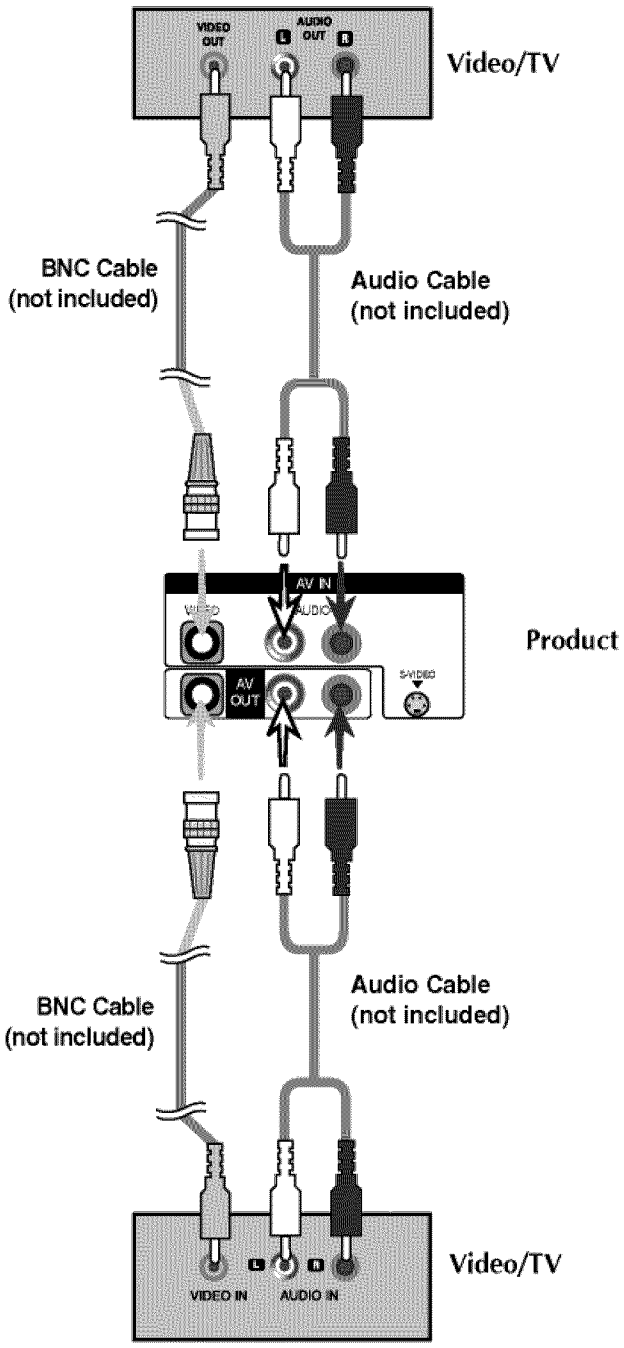
(A) When connecting with a HDMI to DVI signal input cable.
When connecting with a HDMI signal input cable.
• Select **HDMI/DVI**

(B) When connecting with a D-Sub signal input cable.
• Select **RGB**

Connecting to External Devices

Watching AV Outputs

• When you set the input signal of the main screen as '**AV (CVBS)**', you can transmit the signal that you're watching to the AV output terminal.



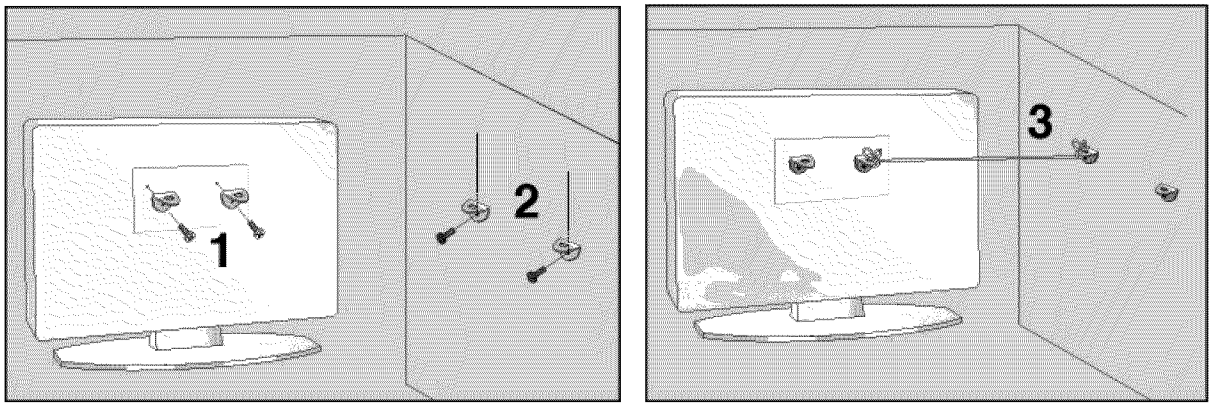
Note

• When multi-connecting in/out cascade format, cables to be less damaged are recommended. We recommend that you should use cable distributor.

Attaching the product to a wall

*** Applicable only for models that support the stand**

• Set it up close to the wall so the product doesn't fall over when it is pushed backwards.
The instructions shown below is a safer way to set up the product, which is to fix it on the wall so the product doesn't fall over when it is pulled in the forward direction. It will prevent the product from falling forward and hurting people. It will also prevent the product from damage caused by fall. Please make sure that children don't climb on or hang from the product.



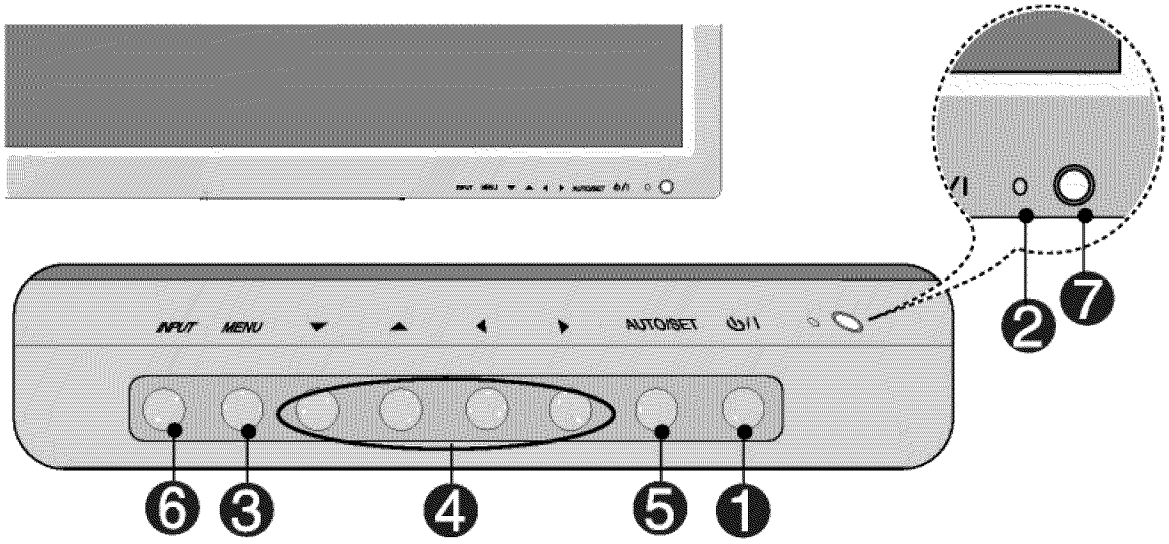
1. Use the braket and the bolt to fix the product to the wall as shown in the picture.
2. Secure the bracket with the bolt(not provided as parts of the product, must purchase separately) on the wall.
3. Use a sturdy rope (not provided as parts of the product, must purchase separately) to tie the product. It is safer to tie the rope so it becomes horizontal between the wall and the product.

Note

- When moving the product to anoher place undo the ropes first.
- Use a product holder or a cabinet that is big and strong enough for the size and weight of the product.
- To use the product safely make sure that the height of the braket that is mounted on the wall is same as that of the product.

Selecting and Adjusting the Screen

Name of the Buttons in the Screen Adjustment Unit



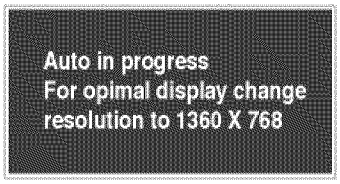
1	Power Button	• Press this button to turn on the power. Press this button again to turn it off.
2	Power Indicator	• This Indicator lights up green when the display operates normally(on mode). If the display is in sleep (Energy Saving) mode, this indicator color changes to amber.
3	MENU Button	• Use this button to show/hide the OSD (On Screen Display) menu screen.
4	OSD Select / Adjust Button	• Use this button to select an icon or adjust the setting in the OSD screen.
	▼▲	• Adjust the up and down.
	◀ ▶	• Adjust the volume.

Selecting and Adjusting the Screen

Name of the Buttons in the Screen Adjustment Unit

5 AUTO/SET Button

[For PC Analog signal]



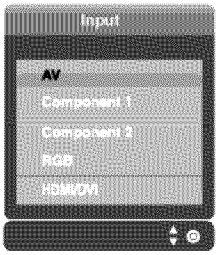
[When XGA Mode is active and 1360 X768 is selected]

6 INPUT Button

INPUT → ▼▲ → AUTO/SET

• Select the input signal

AV	Composite Video, Separate Video
Component 1	HDTV, DVD
Component 2	HDTV, DVD
RGB	15-pin D-Sub analog signal
HDMI/DVI	Digital signal

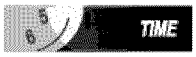


7 IR Receiver

• The unit that receives the signal from the remote control.

Selecting and Adjusting the Screen

OSD Menu

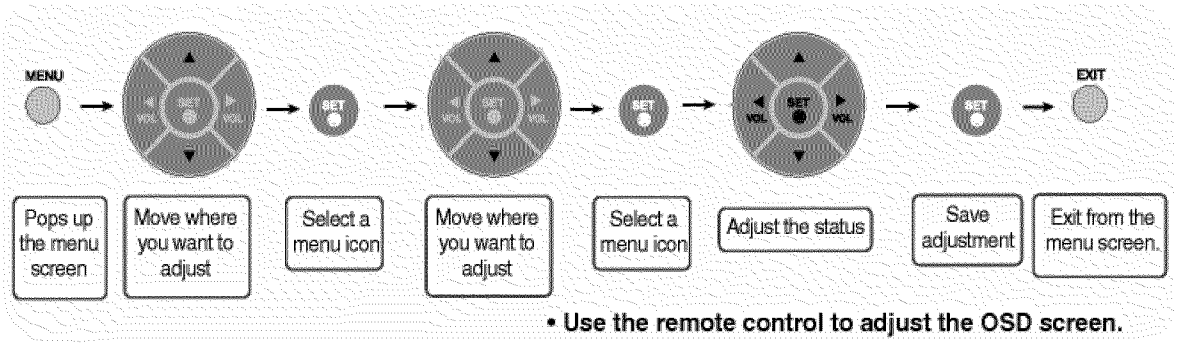
Icon	Function Description
PICTURE	Adjusts screen brightness, contrast and color that you prefer.
SOUND	Adjusts the audio function.
 TIMER	Adjusts the timer function.
SPECIAL	Adjusts the screen status according to the circumstances.
SCREEN	Adjusts the screen video.

Note

OSD(On Screen Display)
The OSD function enables you to adjust the screen status conveniently since it provides graphical presentation.

Selecting and Adjusting the Screen

How to adjust the OSD (On Screen Display) screen



• **Use the remote control to adjust the OSD screen.**

1. Press the **MENU** Button, then the main menu of the OSD appears.
2. To access a control, use the ▼ ▲ Buttons.
3. When the icon you want becomes highlighted, press the **SET** Button.
4. Use the ▼ ▲ ◄ ► Buttons to adjust the item to the desired level.
5. Accept the changes by pressing the **SET** Button.
6. Exit the OSD by pressing the **EXIT** Button.

How to adjust the screen automatically

You need to adjust the screen display when connecting the product to a new computer or changing the mode. Refer to the following section to set an optimal product screen.

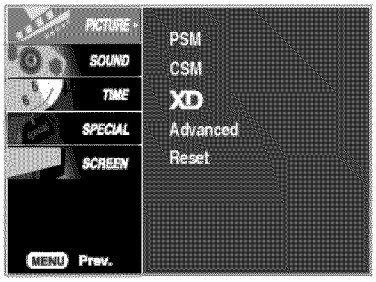
Press the AUTO/SET button (**AUTO button** in a remote Control) in the PC analog signal. Then, an optimal screen status will be selected that fits into the current mode.

If adjustment is not satisfactory, you need to adjust screen position, clock and phase in the OSD menu.

[When XGA Mode is active and 1360 X768 is selected]

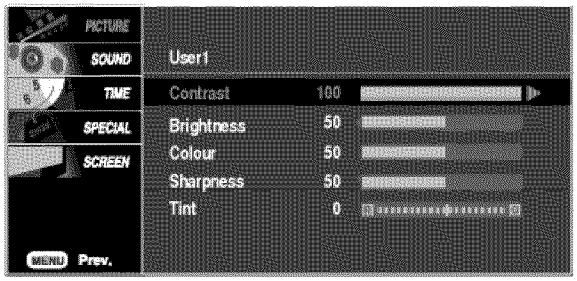
Selecting and Adjusting the Screen

PICTURE Adjusting Screen Color



PSM The **PSM** function automatically adjusts the screen image quality depending on the AV usage environment.

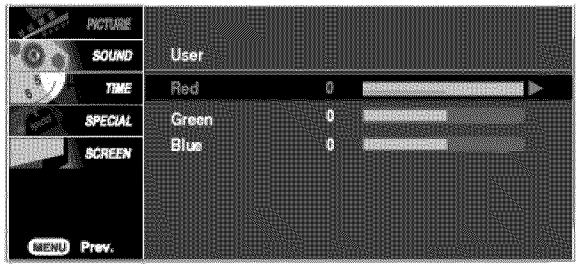
- **Dynamic** : Select this option to display with a sharp image.
- **Standard** : The most general and natural screen display status.
- **Mild** : Select this option to display with a mild image.
- **User1,2** : Select this option to use the user-defined settings.



Contrast : Adjust the difference between the light and dark levels in the picture.
Brightness : To adjust the brightness of the screen.
Colour : To adjust the color to desired level.
Sharpness : To adjust the clearness of the screen.
Tint :To adjust the tint to desired level.

CSM Selecting a factory setting color set.

- **Warm** : Slightly reddish white.
- **Normal** : Slightly bluish white.
- **Cool** : Slightly purplish white.
- **User** : Select this option to use the user-defined settings.



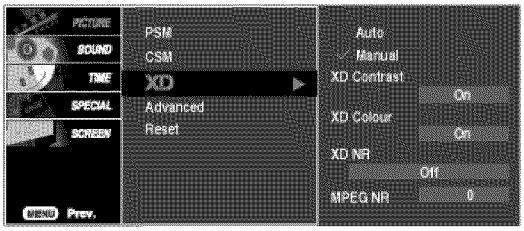
Red / Green / Blue
Set your own color levels.

Note If the '**PSM**' setting in the **PICTURE** menu is set to **Dynamic, Standard, Mild** the subsequent menus will be automatically set.

Selecting and Adjusting the Screen

PICTURE Adjusting Screen Color

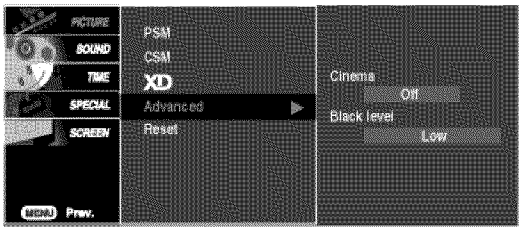
XD **XD** is LG Electronics unique picture improving technology to display a real **HD** source through an advanced digital signal processing algorithm.
It's not available to use this function in **RGB-PC** or **HDMI/DVI PC** modes.
This menu is activated after selecting the **User1** or **User2** of **PSM**.



- **Auto : XD** is automatically change to Auto.
- **Manual :** When selecting the Manual, you can adjust the **XD Contrast**, **XD Colour**, **XD NR**, **MPEG NR**.

- **XD Contrast :** Optimizing the contrast automatically according to the brightness of the reflection.
- **XD Colour :** Adjusting the colors of the reflection automatically to reproduce as closely as possible to the natural colors.
- **XD NR :** Removing the noise up to the point where it does not damage the original picture.
- **MPEG NR :** You can select **MPEG NR** to reduce the picture noise which may appear on the screen during watching the AV.

Advanced



- **Cinema** : (Function works in the following mode - AV, Component 480i/576i)
  When you watch the movie, this function adjusts the set to the best picture appearance.

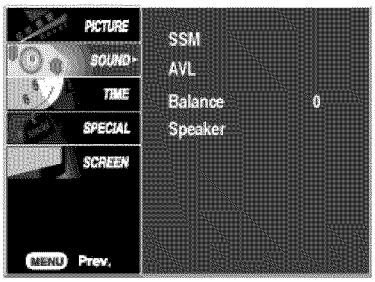
- **Black Level** : (Function works in the following mode - AV(NTSC), HDMI/DVI
  adjusts the contrast and the brightness of the screen using the black level of the screen.

- **Low :** The reflection of the screen gets brighter.
- **High :** The reflection of the screen gets darker.
- **Auto :** Realizing the black level of the screen and set it to High or Low automatically.

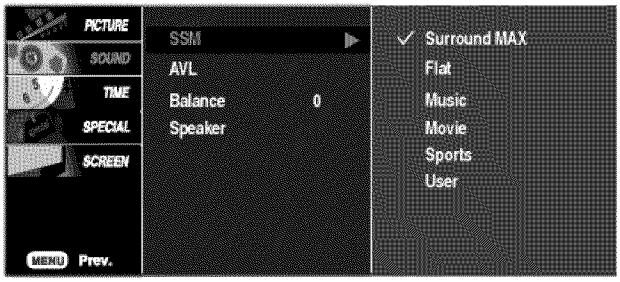
Reset Return to the default settings **PSM**, **CSM**, **XD**, **Advanced** at the factory.

Selecting and Adjusting the Screen

SOUND Adjusting the audio function

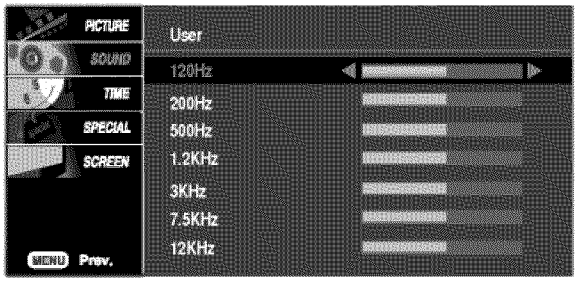


SSM



The best sound tone quality will be selected automatically depending on the video type that you're currently watching.

- **Surround MAX** : Set the **Surround MAX** on. This function plays back the mono or stereo sound input with the dynamic surround effects. It will provide rich and profound sound tone. If you set the **Surround MAX** on, user audio setting can not be adjusted.
- **Flat** : The most commanding and natural audio.
- **Music** : Select this option to enjoy the original sound when listening to the music.
- **Movie** : Select this option to enjoy sublime sound.
- **Sports**: Select this option to watch sports broadcasting.
- **User** : Select this option to use the user-defined audio settings.



AVL To adjust uneven sound volumes across all channels or signals automatically to the most appropriate level. To use this feature, select On.

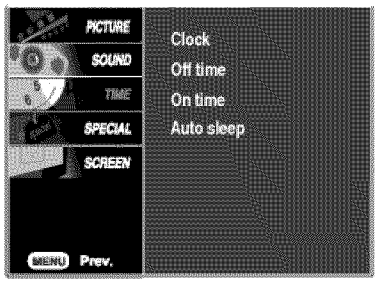
Balance Use this function to balance sound from the left and right speakers.

Speaker You can adjust internal speaker status.
If you want to use your external hi-fi stereo system, turn off the internal speakers of the set.

Note When connected to your computer and the **'SSM'** setting in the audio menu is one of **Flat, Music, Movie** or **Sports**, the available menus are **Balance, AVL** and **Surround MAX** .

Selecting and Adjusting the Screen

TIME Adjusting the timer function



Clock If the time is on the clock is incorrect, reset the clock manually.
1) Press the **MENU** button and then use ▼▲ button to select the **TIME** menu.
2) Press the ▶ button and then use ▼▲ button to select the **Clock** menu.
3) Press the ▶ button and then use ▼▲ button to set the hour(00~23).
4) Press the ▶ button and then use ▼▲ button to set the minutes(00~59).

Off / On time The off time automatically switches the set to standby at the pre-set time.
1) Press the **MENU** button and then use ▼▲ button to select the **TIME** menu.
2) Press the ▶ button and then use ▼▲button to select **Off time** or **On time**.
3) Press the ▶ button and then use ▼▲ button to set the hour(01~23).
4) Press the ▶ button and then use ▼▲ button to set the minutes(00~59).
5) Press the ▶ button and then use ▼▲ button to select **On** or **Off**.

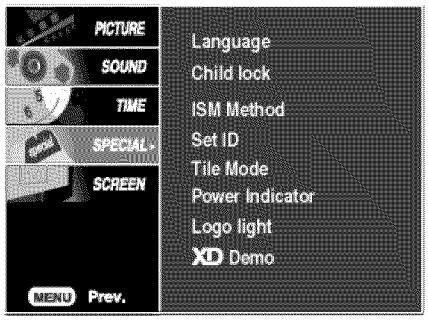
Auto sleep If **Auto sleep** is active and there is no input signal, the set switches to Stanby mode automatically after 10 minutes.
1) Press the **MENU** button and then use ▼▲ button to select the **Auto sleep** menu.
2) Press the ▶ button and then use ▼▲ button to select **On** or **Off**.

Note

- In the event of power interruption (disconnection or power failure), the clock must be reset.
- Once the on or off time is set, these functions operate daily at the preset time.
- Off time function overrides On time function if they are set to the same time.
- The set must be in standby mode for the On time to work.
- When On time is operated, input screen is turnd on as it was turned off.

Selecting and Adjusting the Screen

SPECIAL Selecting the options



Language To choose the language in which the control names are displayed.

Child lock Use the ▼▲ buttons to select **On** or **Off**. The Set can be set up so that it can only be used with the remote control. This feature can prevent unauthorized viewing.

In order to lock the OSD screen adjustment, set the **Child lock** tab to the '**On**' position.
In order to unlock it, do the following :
• Push the **MENU** button on the remote control and set **Child lock** to the '**Off**' position.

ISM Method A frozen of still picture from a PC/Video game displayed on the screen for prolonged periods will result in a ghost image remaining even when you change the image. Avoid allowing a fixed image to remain on the sets screen for a long period of time.

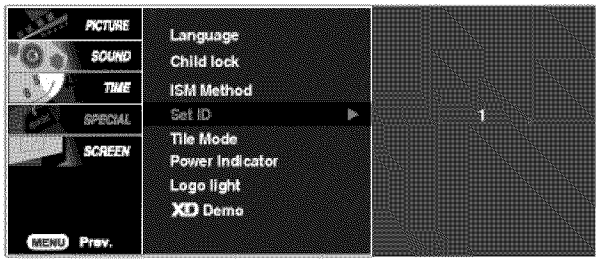
Normal : If image sticking is never a problem, ISM is not necessary -set to Normal.

White wash : white wash removes permanent images from the screen.
(An excessive permanent image may be impossible to clear entirely with white wash.

Orbiter : may help prevent ghost images. However, it is best not to allow any fixed image to remain on the screen. To avoid a permanent image on the screen, the screen will move every 2 minutes.

Inversion : This is function to invert the panel color of the screen. The panel color is automatically inverted every 30 minutes.

Set ID



You can assign a unique **Set ID** NO (name assignment) to each product when several products are connected for display. Specify the number (1~99) using the ▼▲ button and exit. Use the assigned **Set ID** to individually control each product using the Product Control Program.

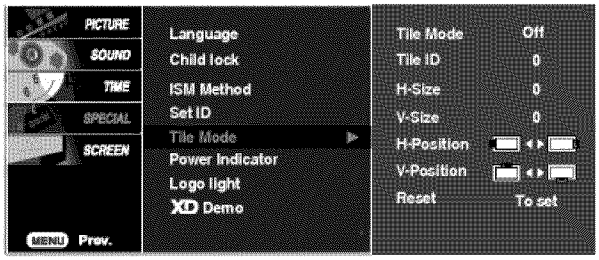
Selecting and Adjusting the Screen

SPECIAL Selecting the options

• To use this function

- Must be displayed with various other products.
- Must be in a function that can be connected to RS-232C or RGB Out

Tile mode

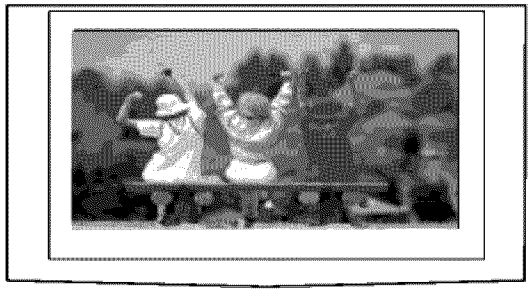


It is used to enlarge the screen and also used with several products to view screen.

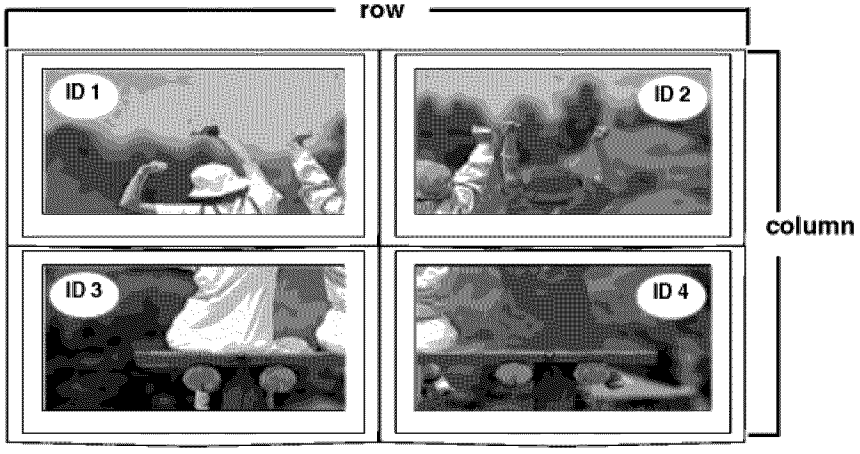
• Tile Mode Tile mode and choose Tile alignment and set the ID of the current product to set location.

* Only after pressing the SET button the adjustments made to the settings will be saved.

- Tile mode : row x column (r = 1, 2, 3, 4 c = 1, 2, 3, 4)
- 4 x 4 available.
- Configuration of an integration screen is also available as well as configuration of One by one Display.

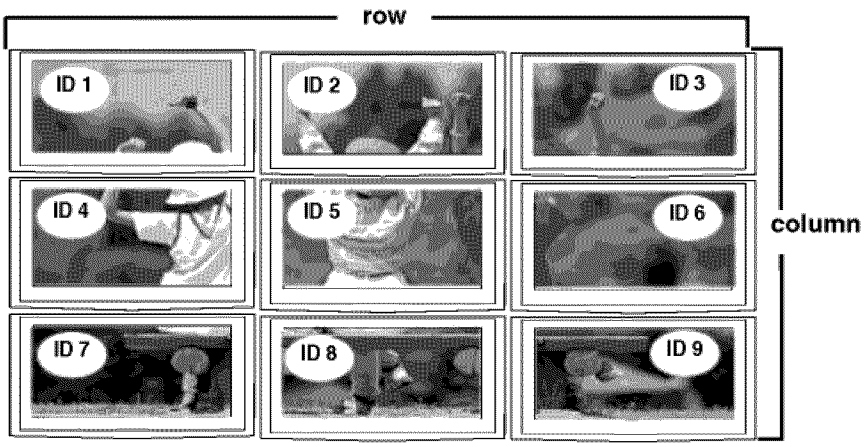


- Tile mode (product 1 ~ 4) : r(2) x c(2)

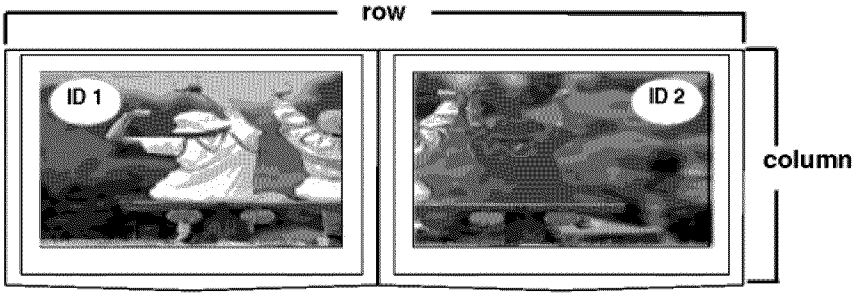


SPECIAL Selecting the options

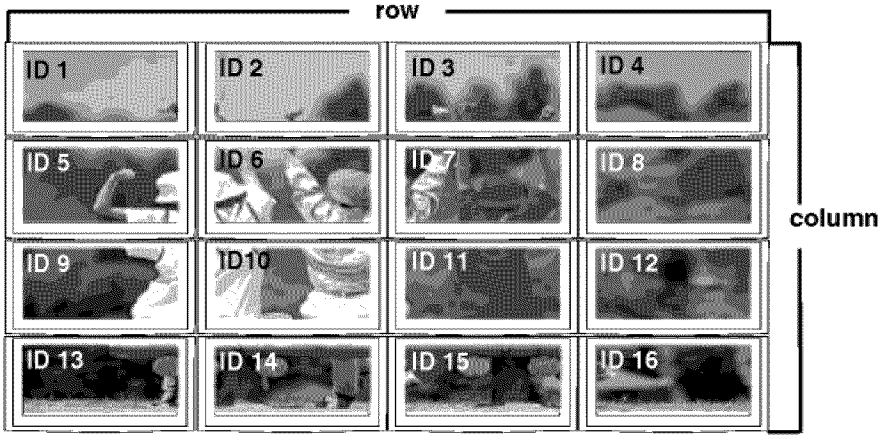
- Tile mode (product 1 ~ 9) : r(3) x c(3)



- Tile mode (product 1 ~ 2) : r(2) x c(1)

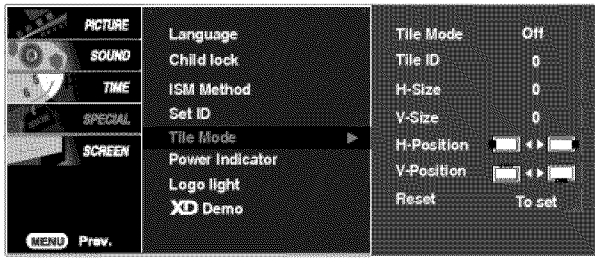


- Tile mode (product 1 ~16) : r(4) x c(4)



Selecting and Adjusting the Screen

SPECIAL Selecting the options



- **Tile ID** Select the location of the Tile by setting an ID.
- **H Size** Adjust the horizontal size of the screen taking into account the size of the bezel.
- **V Size** Adjust the vertical size of the screen taking into account the size of the bezel.
- **H-Position** Moving the screen position horizontally.
- **V-Position** Moving the screen position vertically.
- **Reset** Function to initialize and release Tile.
  All Tile setting are released when selecting Tile recall and the screen returns to Full screen.

Power Indicator Use this function to set the power indicator on the front side of the product to **On** or **Off**.
If you set **Off**, it will go off. If you set **On** at any time, the power indicator will automatically be turned on.

Logo Light Use this function to set the Logo Display Lamp on the front side of the product to **On** or **Off**. If you set **On**, the lamp will automatically be turned on.

XD Demo Use it to see the difference between XD demo on and XD Demo off.
(XD Demo function is not available in RGB PC/ HDMI/DVI PC mode.)

Selecting and Adjusting the Screen

SCREEN Adjusting Screen CLOCK/PHASE and Position

Auto-config. (RGB PC input only)

This button is for the automatic adjustment of the screen position, clock and phase. This function is suitable for analogue signal input only.

Manual-config.

If the picture isn't clear after auto adjustment and especially that characters are still trembling, adjust the picture phase manually.
* It's not available to use Phase, Clock function in RGB DTV, Component, HDMI/DVI DTV.)

Clock — To minimize any vertical bars or stripes visible on the screen background. The horizontal screen size will also change. This function is suitable for analogue signal input only

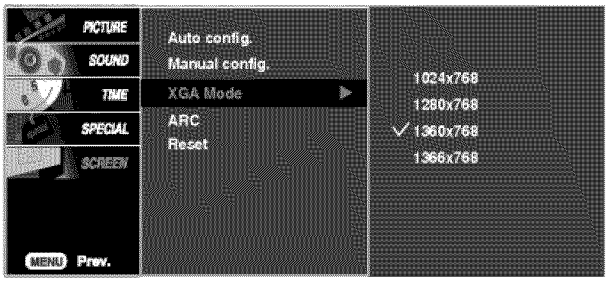
Phase — To adjust the focus of the display. This item allows you to remove any horizontal noise and clear or sharpen the image of characters. This function is suitable for analogue signal input only.

H-Position — Moving the screen position horizontally.

V-Position — Moving the screen position vertically.

XGA Mode (RGB-PC only).

For more improved or better picture quality, select the same mode corresponding to computer resolution.



Selecting and Adjusting the Screen

SCREEN Adjusting Screen CLOCK/PHASE and Position

ARC To select the image size of the screen.

Spectacle When your AV receives the wide screen signal, it will lead you to adjust the picture horizontally, in a nonlinear proportion, to fill the entire screen.

Full When your AV receives the wide screen signal, it will lead you to adjust the picture horizontally or vertically, in a linear proportion, to fill the entire screen fully. (Europe version only)

Original When your AV receives the wide screen signal, it will be automatically changed to picture format to be sent.

4:3 This picture format is 4 to 3 of general AV.

16:9 You can enjoy the cinema (the picture format of 16:9) or general TV programme thorough the 16:9 mode.
The screen 16:9 is viewed just like that but the screen 4:3 is magnified to the left and right so that the screen 16:9 is full.

1:1 This picture format is 1 to 1 of general AV. (only RGB PC, HDMI/DVI PC)

14:9 You can enjoy the picture format of 14:9 or general AV programme through the 14:9 mode.
The screen 14:9 is viewed just like that the screen 4:3 is magnified to the upper/lower and left/right.

Zoom1, 2 You can enjoy the cinema in a vast screen through the Zoom mode.
The screen 4:3 is magnified to the upper/lower and left/right sides so that screen 16:9 is full. The bottom and top of the picture may be lost.

MODE / ARC	AV	Component	HDMI/DVI		RGB	
			DTV	PC	DTV	PC
Spectacle	●	×	×	×	×	×
Full	●	×	×	×	×	×
Original	●	×	×	×	×	×
4:3	●	●	●	×	●	×
16:9	●	●	●	●	●	●
14:9	●	×	×	×	×	×
Zoom1	●	●	●	×	●	×
Zoom2	●	●	●	×	●	×
1:1	×	×	×	●	×	●

Reset Use this function to reset the product to the factory default.(**Manual config.** manu only)

Troubleshooting

No image is displayed

● Is the product power cord connected?	• See if the power cord is properly connected to the outlet.
● Is the power indicator light on?	• See if the power switch is turned on.
● Power is on, power indicator is green but the screen appears extremely dark.	• Adjust brightness and contrast again.
● the power indicator amber?	• If the product is in power saving mode, move the mouse or press any key.
● Does the 'Out of range' message appear?	• The signal from the PC (video card) is out of the vertical or horizontal frequency range of the product. Adjust the frequency range by referring to the Specifications in this manual. *** Maximum resolution** - 32 / 37 / 42 inch model RGB : 1600 x 1200 @60Hz HDMI/DVI : 1280 x 1024 @60Hz
● Does the 'Check signal cable' message appear?	• The signal cable between PC and product is not connected. Check the signal cable. • Press the 'INPUT' menu in the remote Control to check the input signal.

'Unknown Product' message appears when the product is connected.

● Did you install the driver?	• Install the product driver, which is provided with the product, or download it from the web site. (http://www.lge.com) • See if the plug&play function is supported by referring to the video card user manual.

'Controls Locked' message appears.

● The 'Controls Locked' message appears when pressing the Menu button.	• The control locking function prevents unintentional OSD setting change due to careless usage. To unlock the controls, simultaneously press the Menu button and ▶ button for several seconds. (You cannot set this function using the remote control buttons. You can set this function in the product only.)

Note

*** Vertical frequency:** To enable the user to watch the product display, screen image should be changed tens of times every second like a fluorescent lamp. The vertical frequency or refresh rate is the times of image display per second. The unit is Hz.

*** Horizontal frequency:** The horizontal interval is the time to display one vertical line. When 1 is divided by the horizontal interval, the number of horizontal lines displayed every second can be tabulated as the horizontal frequency. The unit is kHz.

Troubleshooting

The screen image looks abnormal.

● Is the screen position wrong?	• D-Sub analog signal – Press the "AUTO" button in the remote control to automatically select the optimal screen status that fits into the current mode. If adjustment is not satisfactory, use the Position OSD menu. • See if the video card resolution and frequency are supported by the product. If the frequency is out of range, set to the recommended resolution in the Control Panel – Display – Setting menu.
● Do thin lines appear on the background screen?	• D-Sub analog signal – Press the "AUTO" button in the remote control to automatically select an optimal screen status that fits into the current mode. If adjustment is not satisfactory, use the Clock OSD menu.
● Horizontal noise appears or the characters look blurred.	• D-Sub analog signal – Press the "AUTO" button in the remote control to automatically select an optimal screen status that fits into the current mode. If adjustment is not satisfactory, use the Phase OSD menu.
● The screen is displayed abnormally.	• The proper input signal is not connected to the signal port. Connect the signal cable that matches with the source input signal.

After-image appears on the product.

● After-image appears when the product is turned off.	• If you use a fixed image for a long time, the pixels may be damaged quickly. Use the screen-saver function.

Troubleshooting

The audio function does not work.

● No sound?	• See if the audio cable is connected properly. • Adjust the volume. • See if the sound is set properly.
● Sound is too dull.	• Select the appropriate equalize sound.
● Sound is too low.	• Adjust the volume.

Screen color is abnormal.

● Screen has poor color resolution (16 colors).	• Set the number of colors to more than 24 bits (true color) Select Control Panel – Display – Settings – Color Table menu in Windows.
● Screen color is unstable or mono-colored.	• Check the connection status of the signal cable. Or, re-insert the PC video card.
● Do black spots appear on the screen?	• Several pixels (red, green, white or black color) may appear on the screen, which can be attributable to the unique characteristics of the LCD panel. It is not a malfunction of the LCD.

Specifications

The product specifications can change without prior notice for product improvement.

LCD Panel	**[32 inch]**	32 inches (80.04 cm) TFT (Thin Film Transistor) LCD (Liquid Crystal Display) Panel Visible diagonal size: 80.04 cm 0.5025 mm (Pixel Pitch)
	[37 inch]	37 inches (94.03 cm) TFT (Thin Film Transistor) LCD (Liquid Crystal Display) Panel Visible diagonal size: 94.03 cm 0.6000 mm (Pixel Pitch)
	[42 inch]	42 inches (106.73 cm) TFT (Thin Film Transistor) LCD (Liquid Crystal Display) Panel Anti-Glare coating Visible diagonal size: 106.73 cm 0.681 mm (Pixel Pitch)
Power	**[32 inch]**	
	Rated Voltage	AC 100-240V~ 50/60Hz 1.5A
	Power Consumption	On Mode : 145W Sleep Mode : ≤ 1W (RGB) / 4W (HDMI/DVI) Off Mode : ≤ 1W
	[37 inch]	
	Rated Voltage	AC 100-240V~ 50/60Hz 2.0A
	Power Consumption	On Mode : 180W Sleep Mode : ≤ 1W (RGB) / 4W(HDMI/DVI) Off Mode : ≤ 1W
	[42 inch]	
	Rated Voltage	AC 100-240V~ 50/60Hz 2.5A
	Power Consumption	On Mode : 240W Sleep Mode : ≤ 1W (RGB) / 4W(HDMI/DVI) Off Mode : ≤ 1W

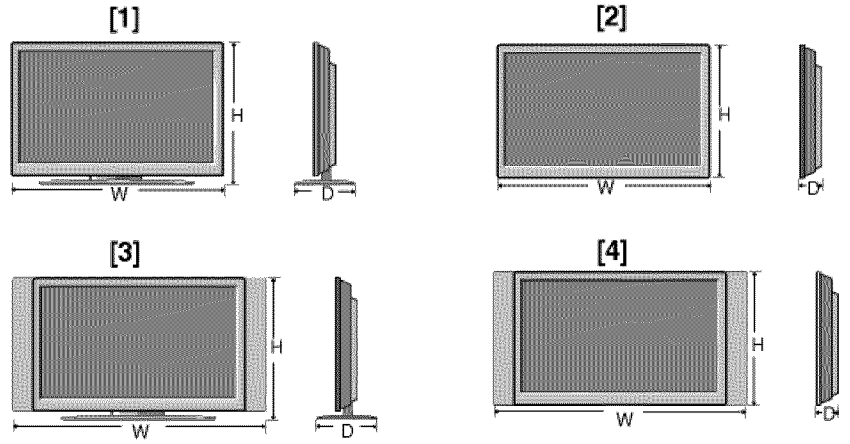
NOTE

- Information in this document is subject to change without notice.

Specifications

The product specifications can change without prior notice for product improvement.

Dimensions &Weight



Width x Height x Depth

[32 inch]

[1] 80.30 cm (31.61 inches) x 54.00cm (21.26 inches) x 18.00 cm (7.09 inches)
[2] 80.30 cm (31.61 inches) x 49.30 cm (19.4 inches) x 9.99 cm (3.93 inches)
[3] 96.40 cm (37.95 inches) x 54.00cm (21.26 inches) x 18.00 cm (7.09 inches)
[4] 96.40 cm (37.95 inches) x 49.30 cm (19.4 inches) x 9.99 cm (3.93 inches)

[37 inch]

[1] 92.80 cm (36.54 inches) x 61.90 cm (24.37 inches) x 22.77 cm (8.96 inches)
[2] 92.80 cm (36.54 inches) x 57.12 cm (22.49 inches) x 11.50 cm (4.53 inches)
[3] 112.9 cm (44.45 inches) x 61.90 cm (24.37 inches) x 22.77 cm (8.96 inches)
[4] 112.9 cm (44.45 inches) x 57.12 cm (22.49 inches) x 11.50 cm (4.53 inches)

[42 inch]

[1] 105.7 cm (41.61 inches) x 70.20 cm (27.64 inches) x 29.45 cm (11.59 inches)
[2] 105.7 cm (41.61 inches) x 65.30 cm (25.71 inches) x 11.91 cm (4.69 inches)
[3] 125.9 cm (49.57 inches) x 70.20 cm (27.64 inches) x 29.45 cm (11.59 inches)
[4] 125.9 cm (49.57 inches) x 65.30 cm (25.71 inches) x 11.91 cm (4.69 inches)

Specifications

The product specifications can change without prior notice for product improvement.

Dimensions &Weight	Net	
	[32 inch]	
	[1] 19.4 kg (42.77 lbs)	[2] 16.0 kg (35.27 lbs)
	[3] 21.1 kg (46.52 lbs)	[4] 17.7 kg (39.02 lbs)
	[37 inch]	
	[1] 26.1 kg (57.54 lbs)	[2] 22.0kg (48.50 lbs)
	[3] 30.5 kg (67.24 lbs)	[4] 25.7 kg (56.66 lbs)
	[42 inch]	
	[1] 35.2 kg (77.60 lbs)	[2] 30.8 kg (67.90 lbs)
	[3] 38.0 kg (83.77 lbs)	[4] 33.6 kg (74.07 lbs)

Specifications

32/37/42 inch model

The product specifications can change without prior notice for product improvement.

Video Signal	**Max. Resolution**	RGB : 1600 X 1200 @60Hz HDMI/DVI : 1280 X 1024 @60Hz – It may not be supported depending on the OS or video card type.
	Recommended Resolution	RGB : WSXGA 1360 X 768 @60Hz HDMI/DVI : WSXGA 1360 X 768 @60Hz – It may not be supported depending on the OS or video card type.
	Horizontal Frequency	RGB : 30 - 83 kHz HDMI/DVI : 30 - 72 kHz
	Vertical Frequency	56 - 85 Hz
	Synchronization Type	Separate/Composite/SOG (Sync On Green)/Digital
Input Connector		15-pin D-Sub type, HDMI (digital), S-Video, Composite Video, Component, RS-232C
Environmental Conditions	**Operational Condition**	Temperature: 10°C ~ 35°C , Humidity: 10% ~ 80%
	Storage Condition	Temperature: -20°C ~ 60°C , Humidity: 5% ~ 95%

*** Applicable only for models that support the speakers**

Audio	RMS Audio Output	10W+10W(R+L)
	Input Sensitivity	0.7Vrms
	Speaker Impedance	8Ω

NOTE

- Information in this document is subject to change without notice.

Specifications

PC Mode – Preset Mode

	Preset mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)		Preset mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)
1	VGA 640 x 350	31.469	70	11	VESA 1024 x 768	60.123	75
2	VGA 720 x 400	31.468	70	12	VESA 1024 x 768	68.68	85
3	VGA 640 x 480	31.469	60	13	VESA 1280 x 720	44.772	60
4	VESA 640 x 480	37.500	75	14	VESA 1280 x 768	47	60
5	VESA 640 x 480	43.269	85	15	VESA 1360 x 768	47.72	60
6	VESA 800 x 600	37.879	60	16	VESA 1366 x 768	47	60
7	VESA 800 x 600	46.875	75	17	VESA 1280 x 1024	63.981	60
8	VESA 800 x 600	53.674	85	18	VESA 1280 x 1024	79.98	75
9	MAC 832 x 624	49.725	75	19	VESA 1600 x 1200	75.00	60
10	VESA 1024 x 768	48.363	60				

RGB : Mode 1 ~ Mode 19
HDMI/DVI : Mode 1 ~ Mode 17

DTV Mode

	Component	RGB(DTV)	HDMI/DVI(DTV)
480i	o	x	x
576i	o	x	x
480p	o	o	o
576p	o	o	o
720p	o	o	o
1080i	o	o	o

Power Indicator

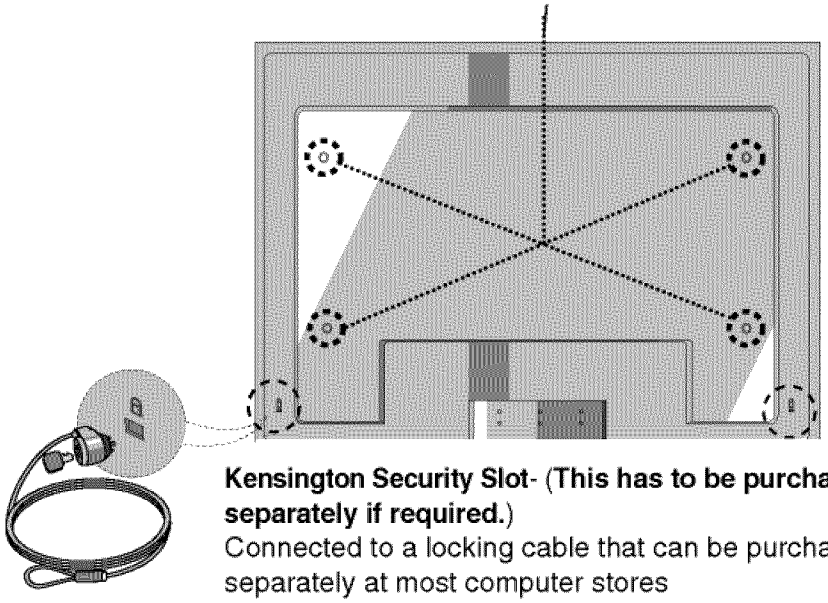
Mode	Product
On Mode	Green
Sleep Mode	Amber
Off Mode	-

NOTE

- DTV/PC selection on RGB and HDMI/DVI inputs is available for PC resolutions : 640 X 480/60Hz, 1280 X 720/60Hz and DTV resolutions : 480p, 720p.

Specifications

VESA wall mounting
Connected to another object (stand type and wall-mounted type.) This product accepts a VESA-compliant mounting interface pad.- (**This has to be purchased separately if required.**)
For further information, refer to the VESA Wall Mounting Instruction Guide.



Kensington Security Slot- (**This has to be purchased separately if required.**)
Connected to a locking cable that can be purchased separately at most computer stores